

**Figure 1**

10

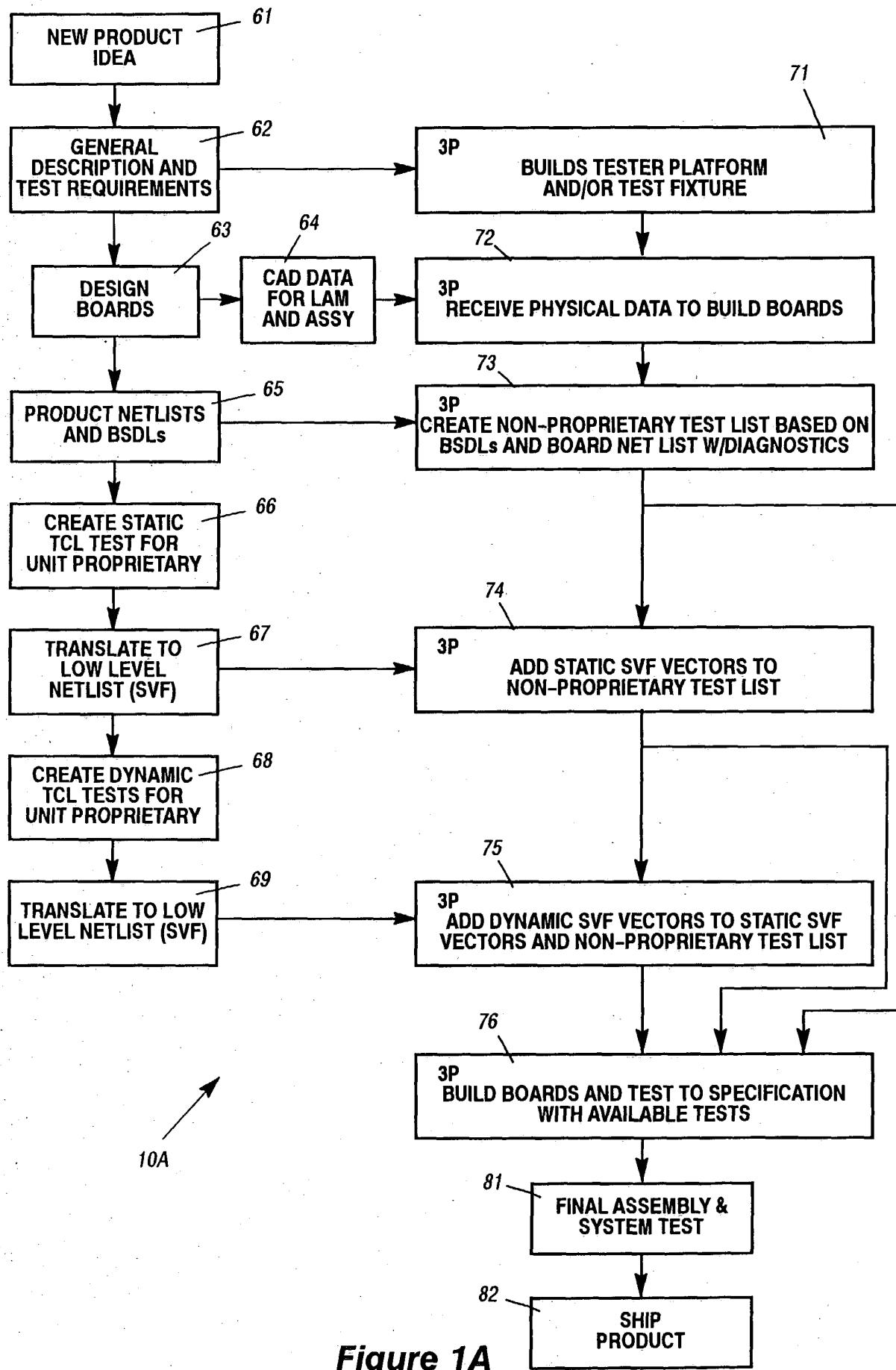
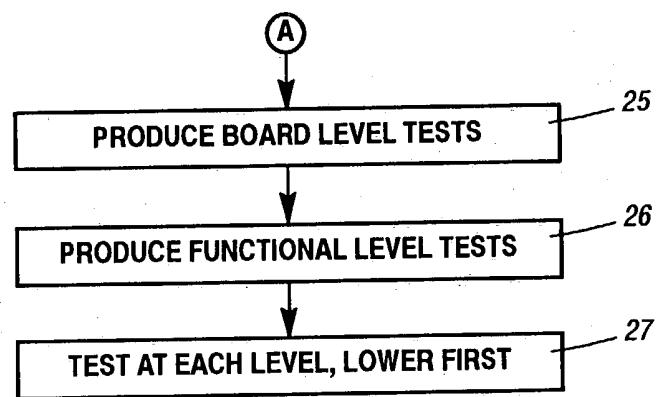
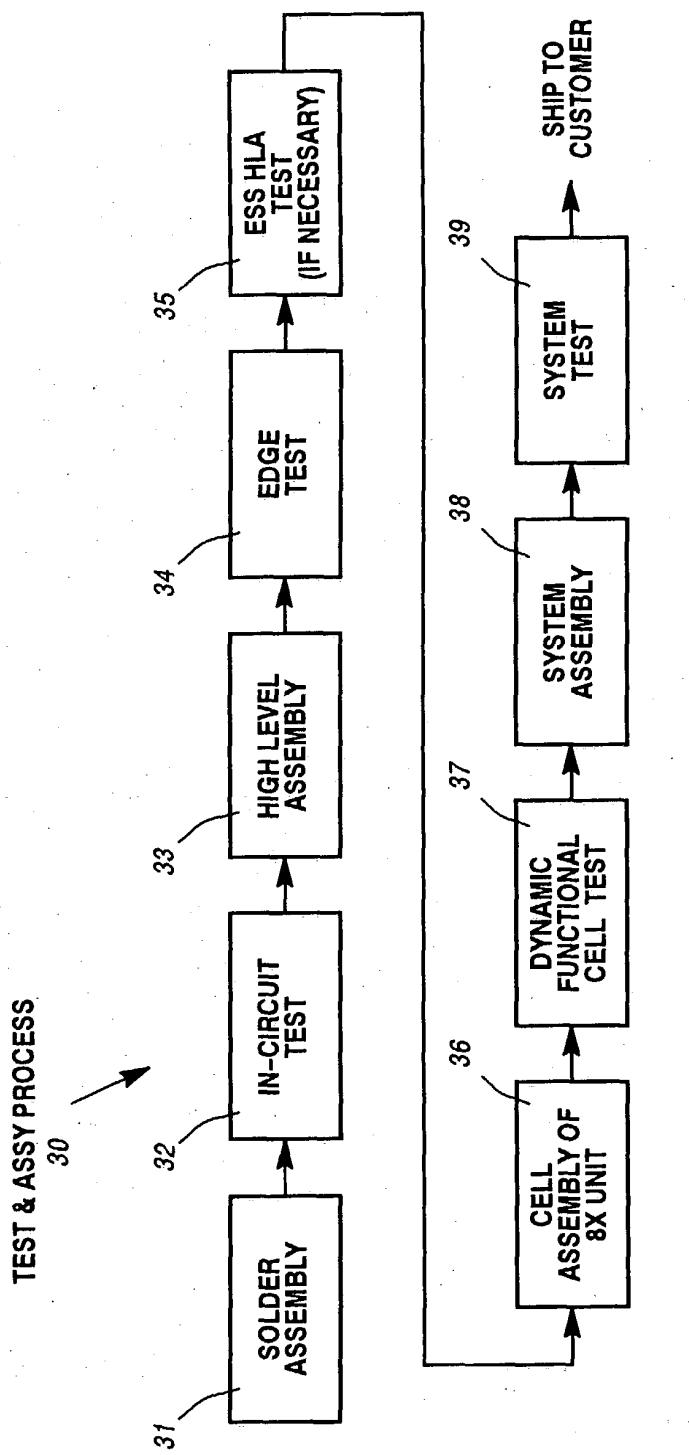


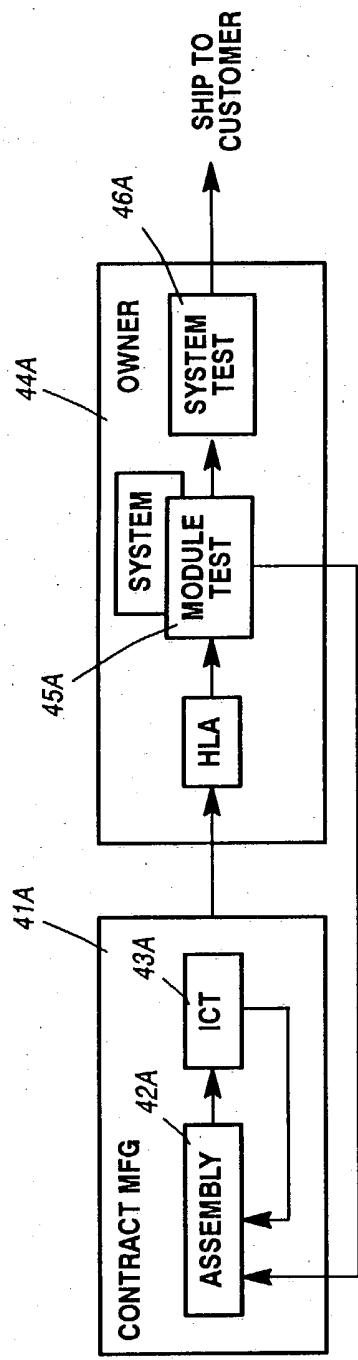
Figure 1A



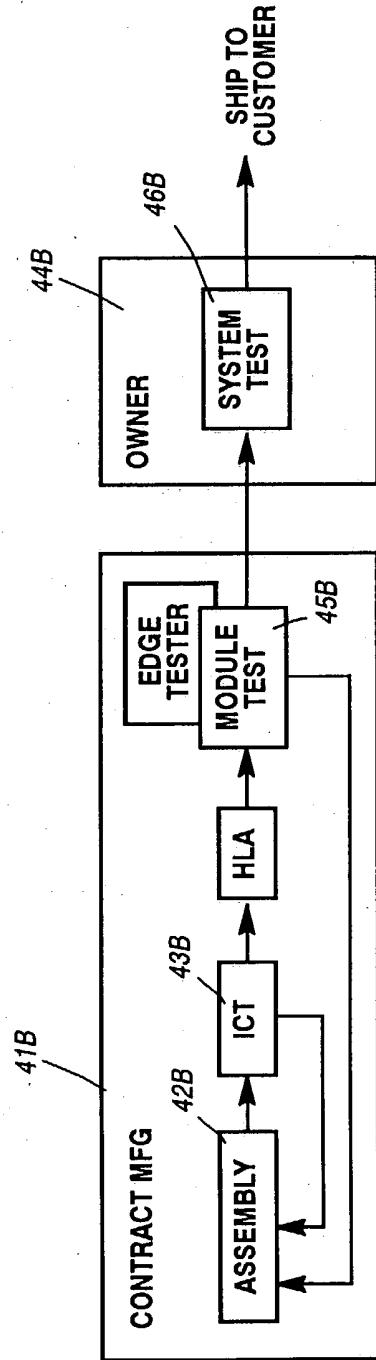
**Figure 2**



**Figure 3**

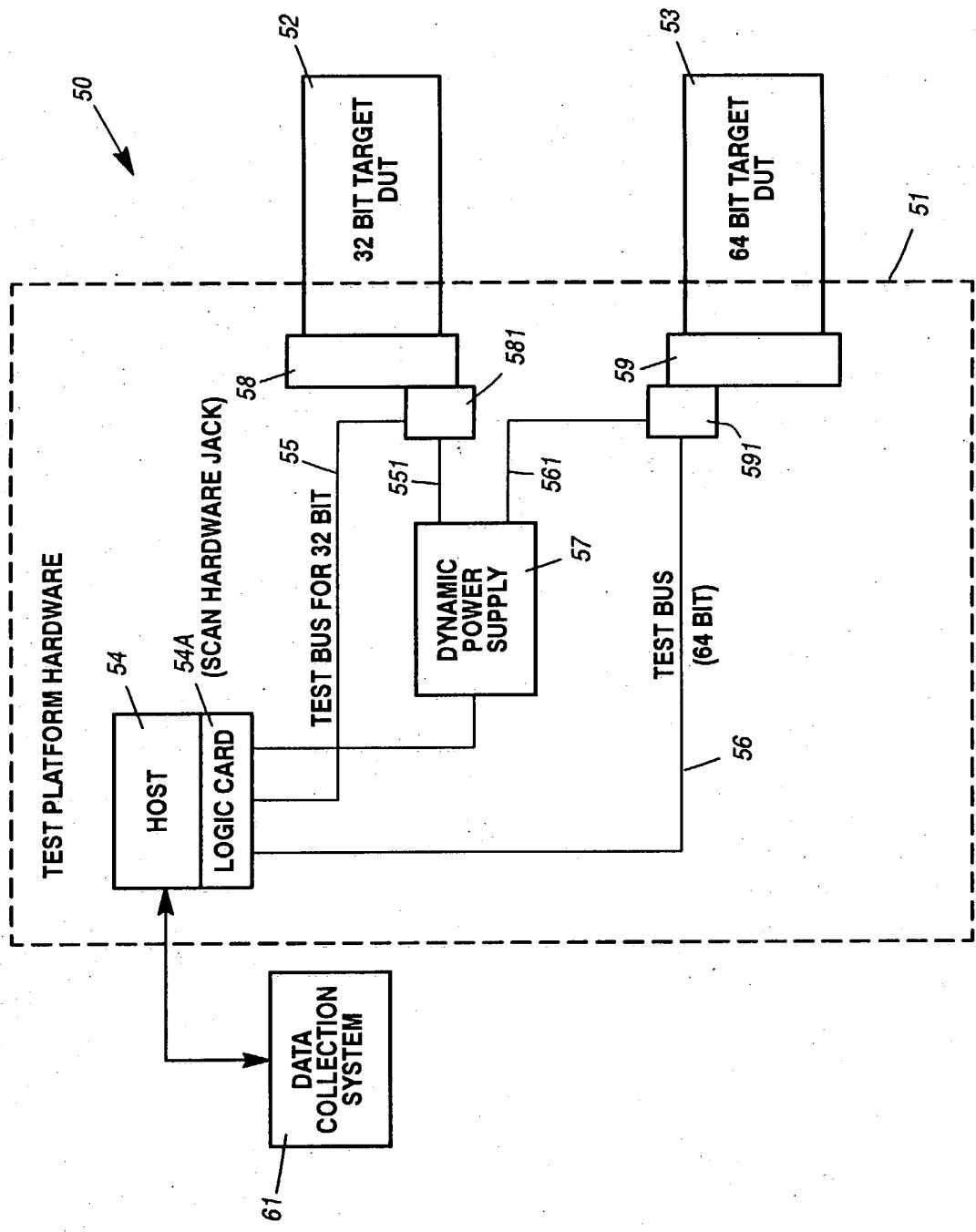


**Figure 4A**  
**Prior Art**

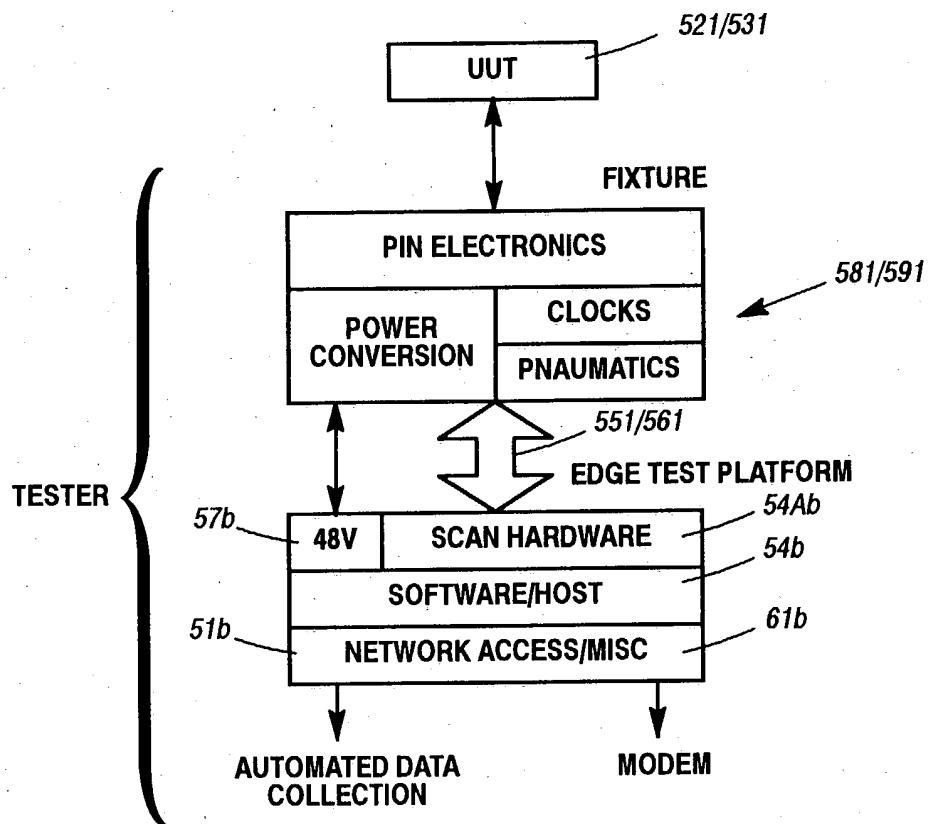


**FASTER FEEDBACK (DECREASED INVENTORY, QUICKER LEARNING, BETTER YIELD)  
IMPROVED DATA COLLECTION**

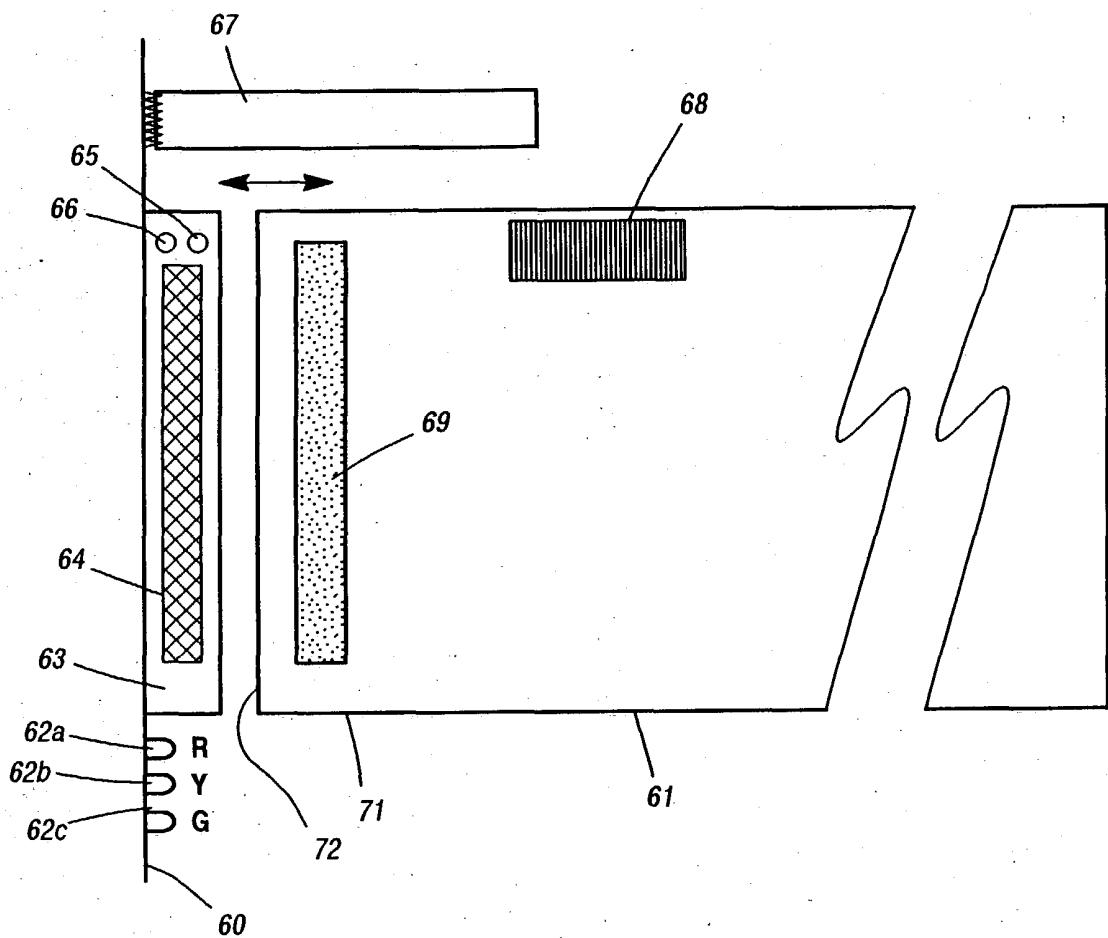
**Figure 4B**



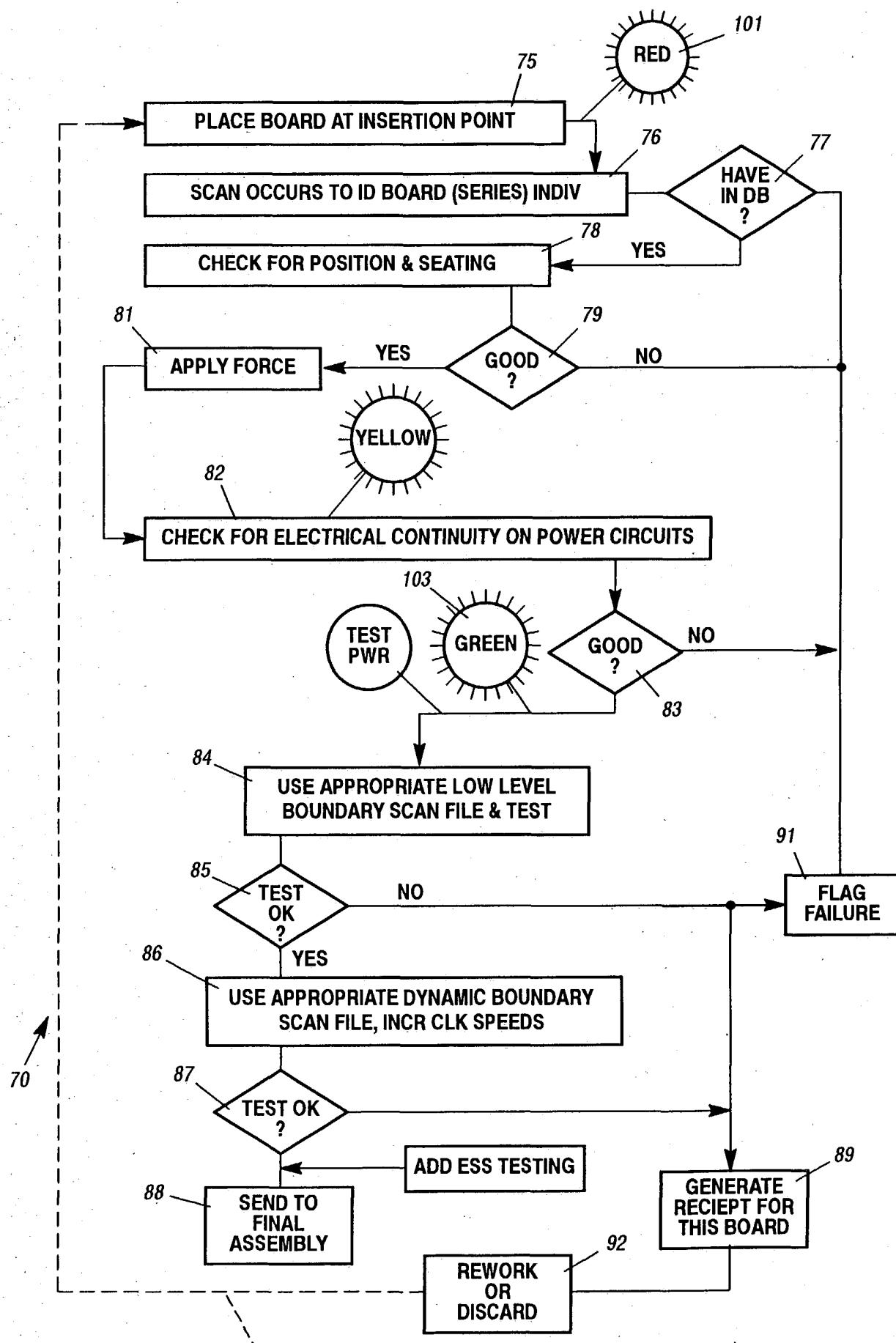
**Figure 5A**



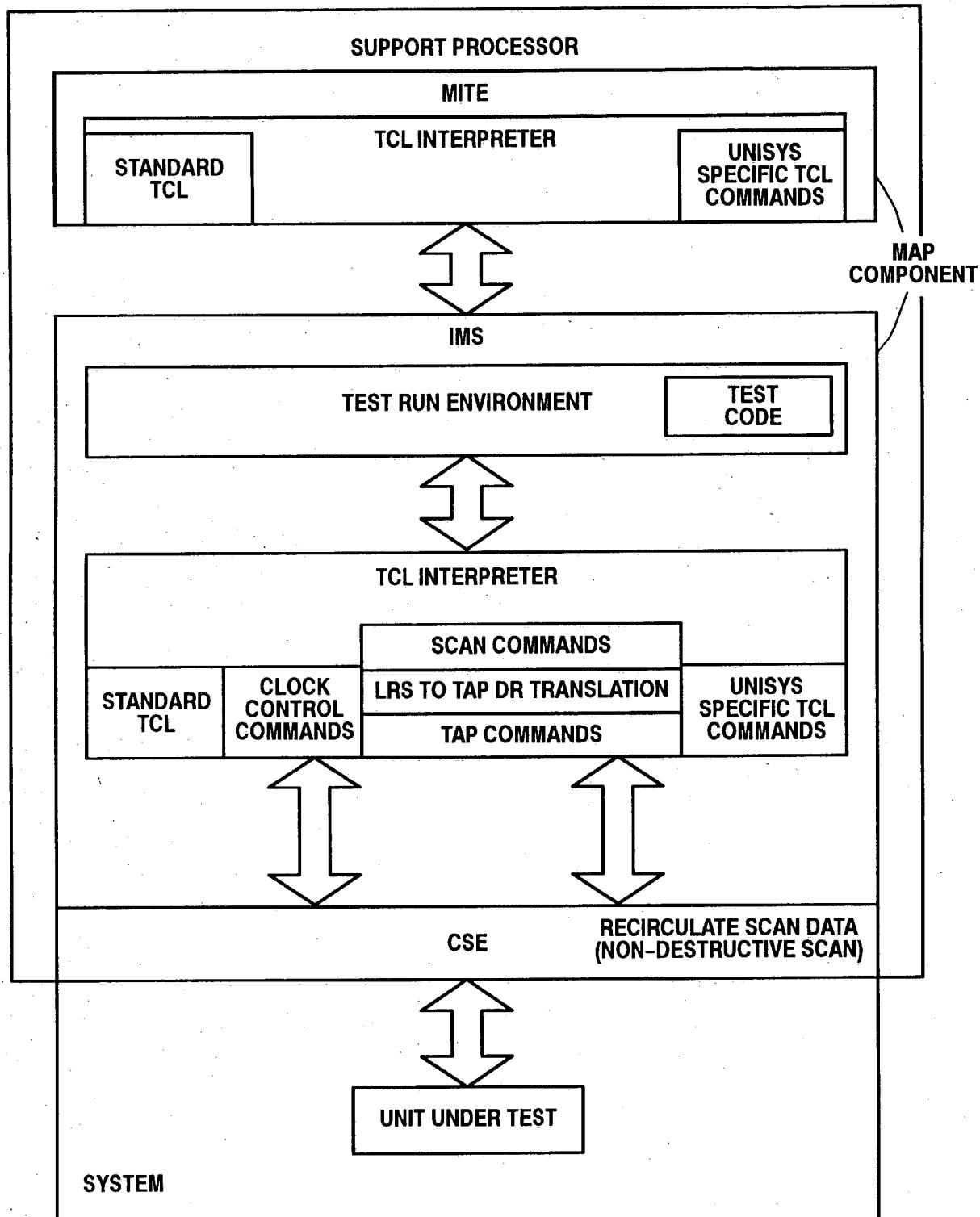
**Figure 5B**



**Figure 6**

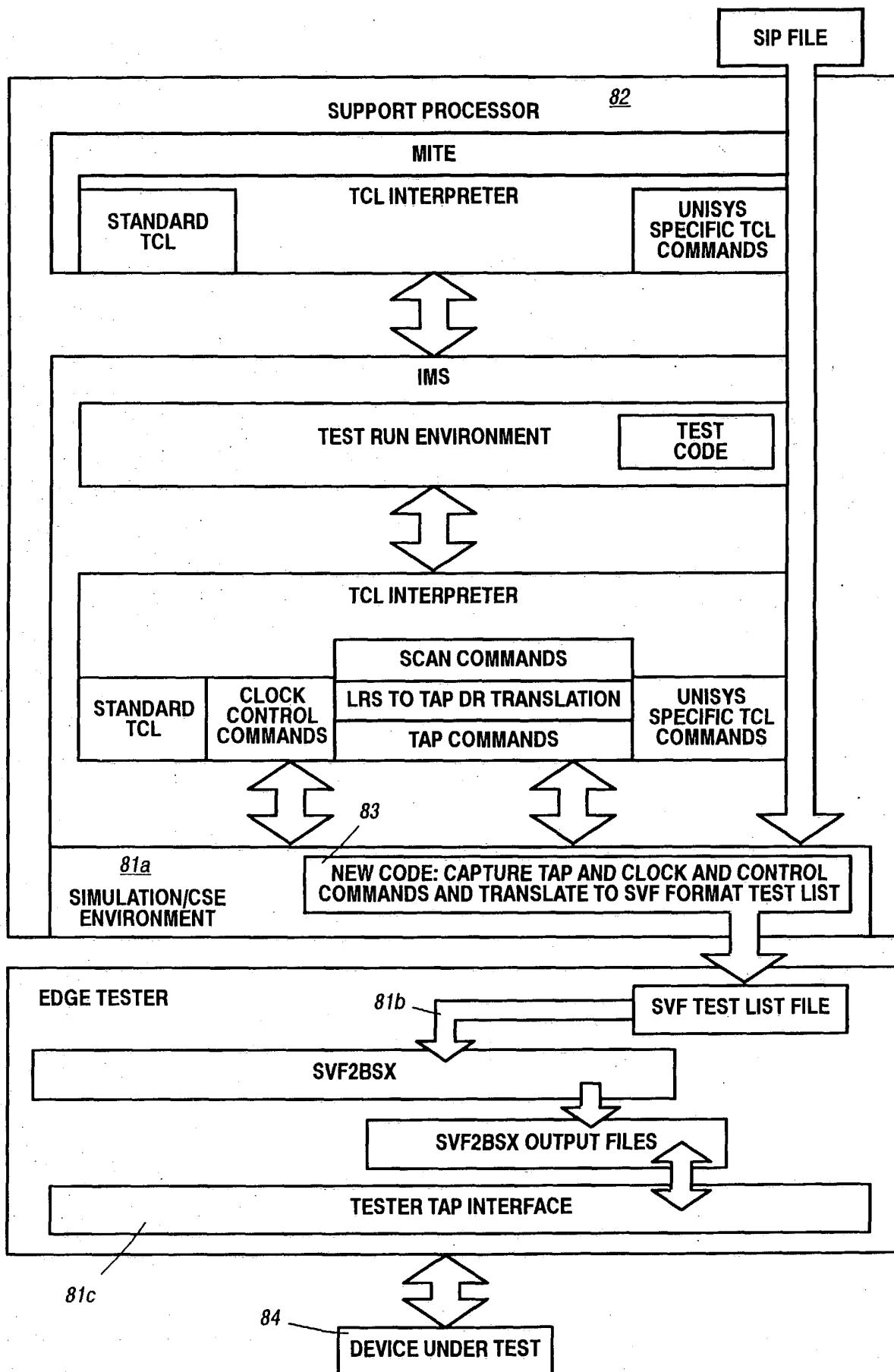


**Figure 7**



**(IN-HOUSE TESTING)**

**Figure 8A**



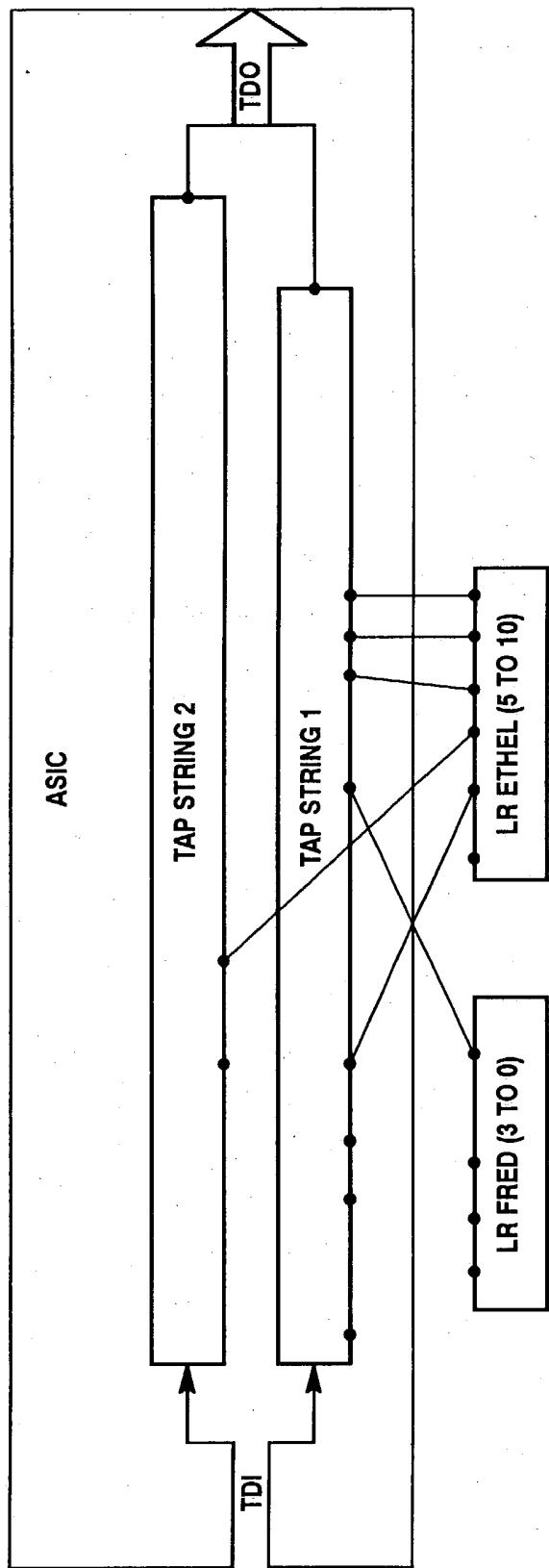
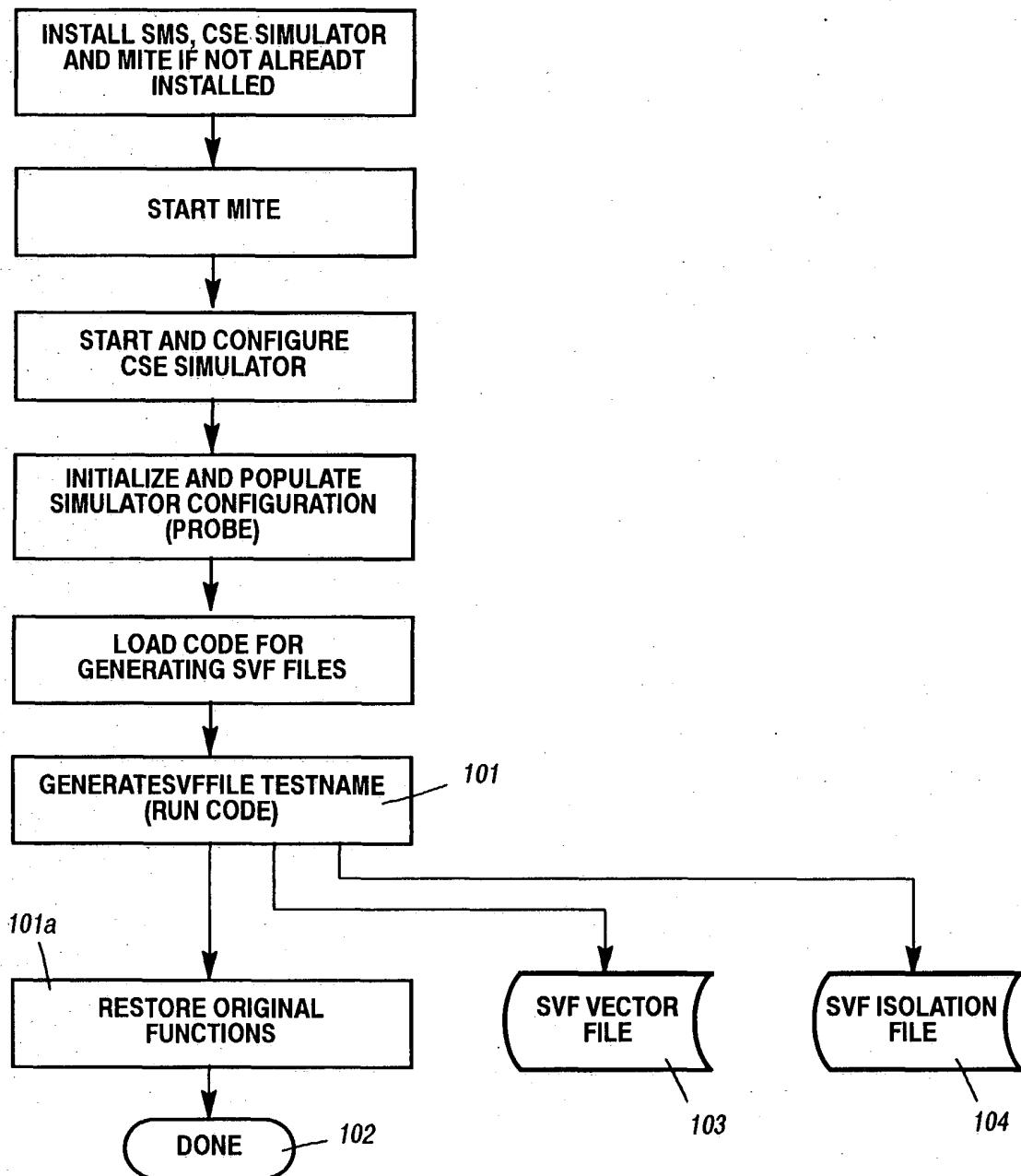
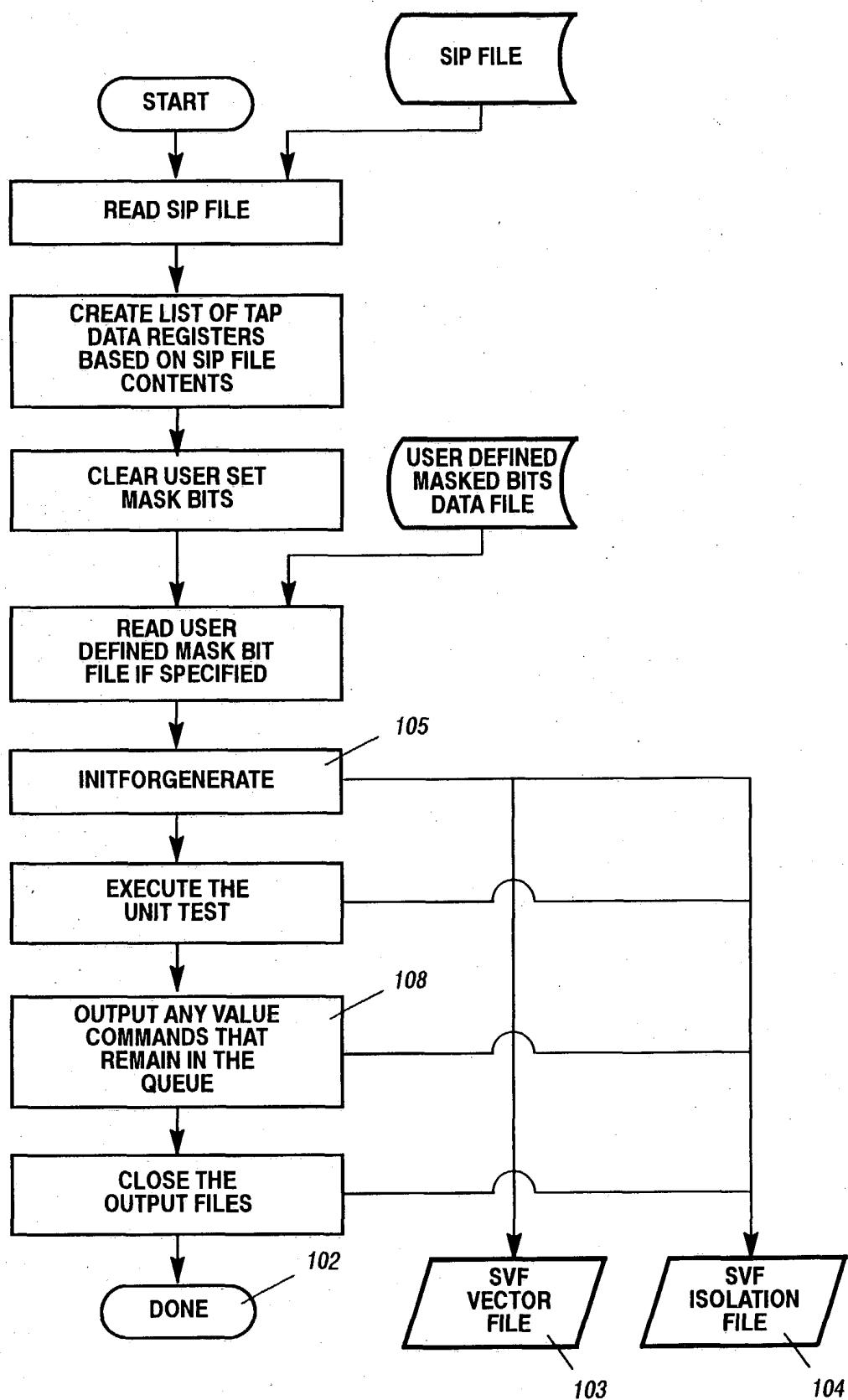


Figure 9



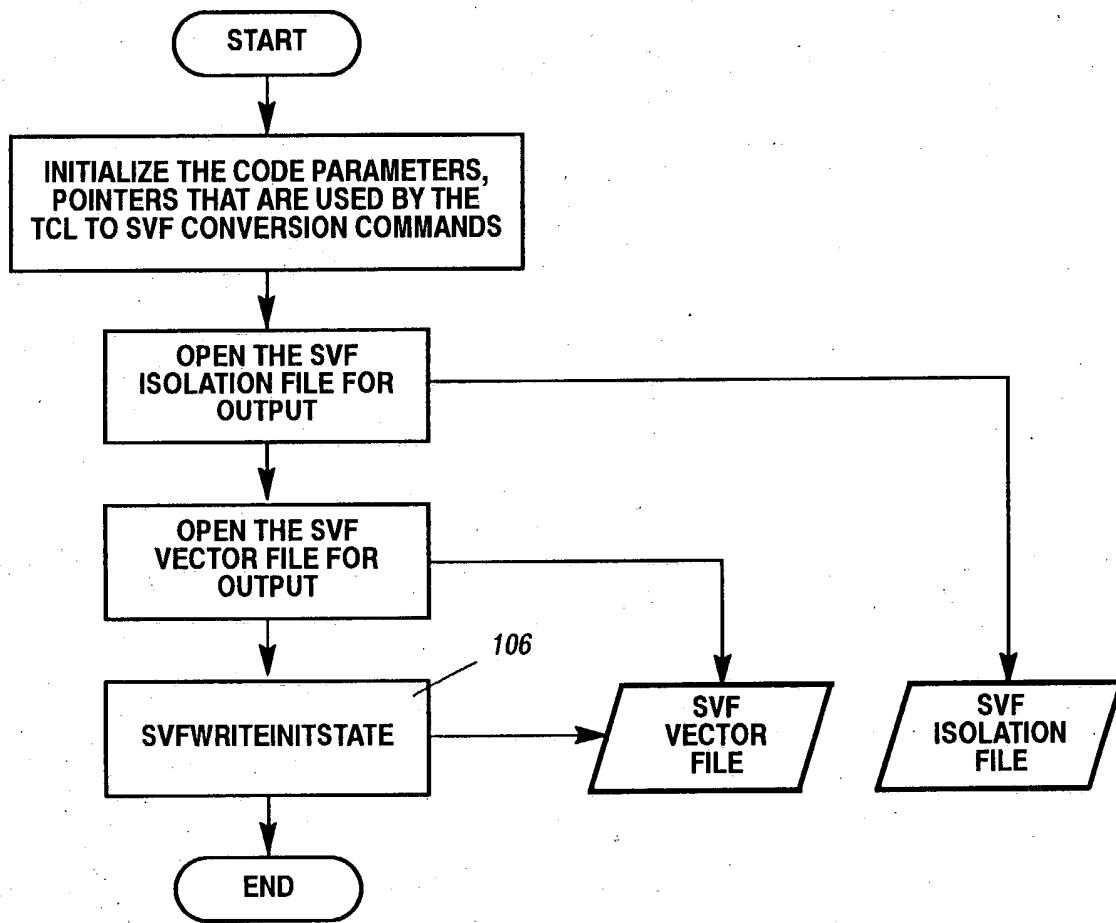
## UNIT TEST TO SVF FORMAT CONVERSION PROCESS

***Figure 10A***



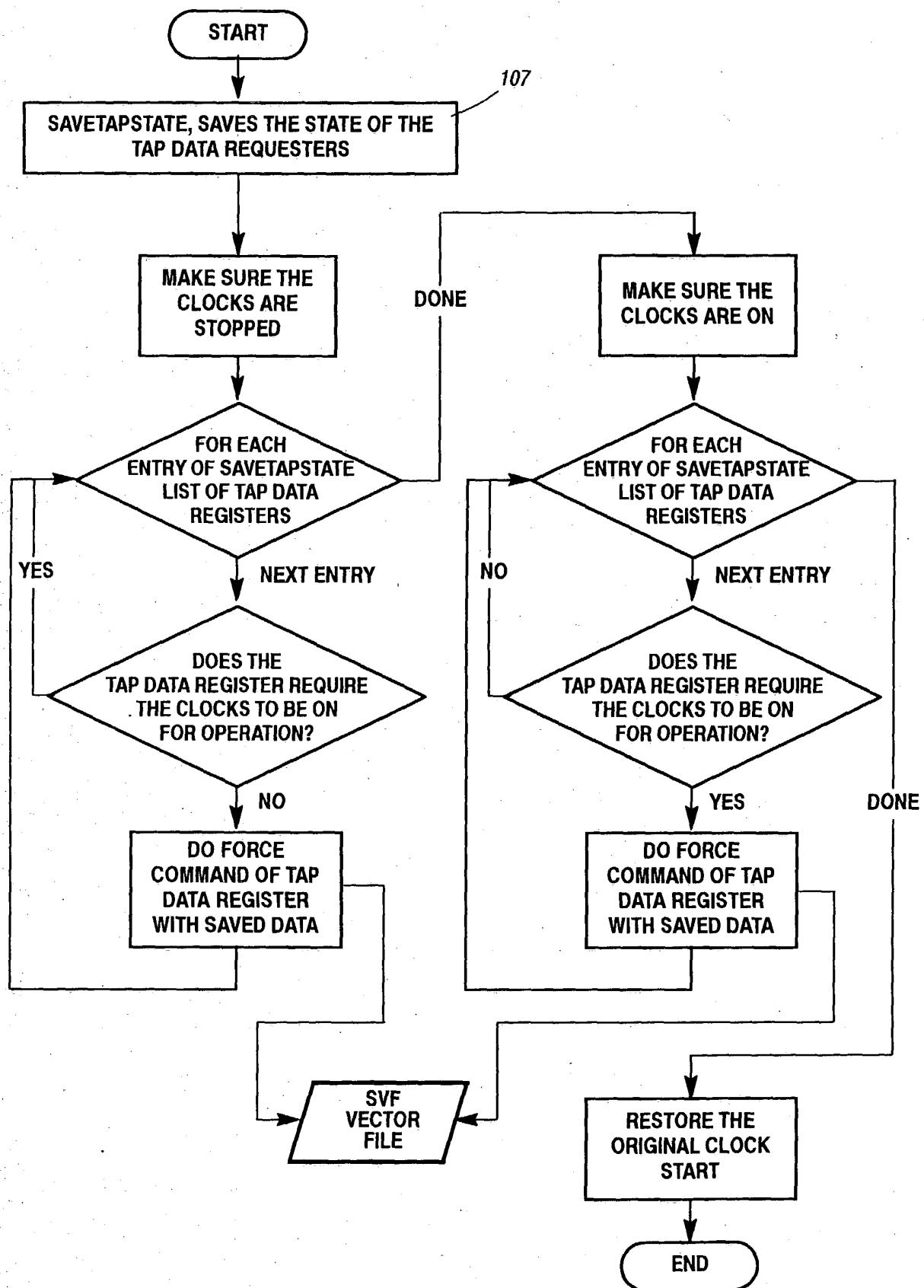
GENERATESVFFILE FLOWCHART

*Figure 10B*

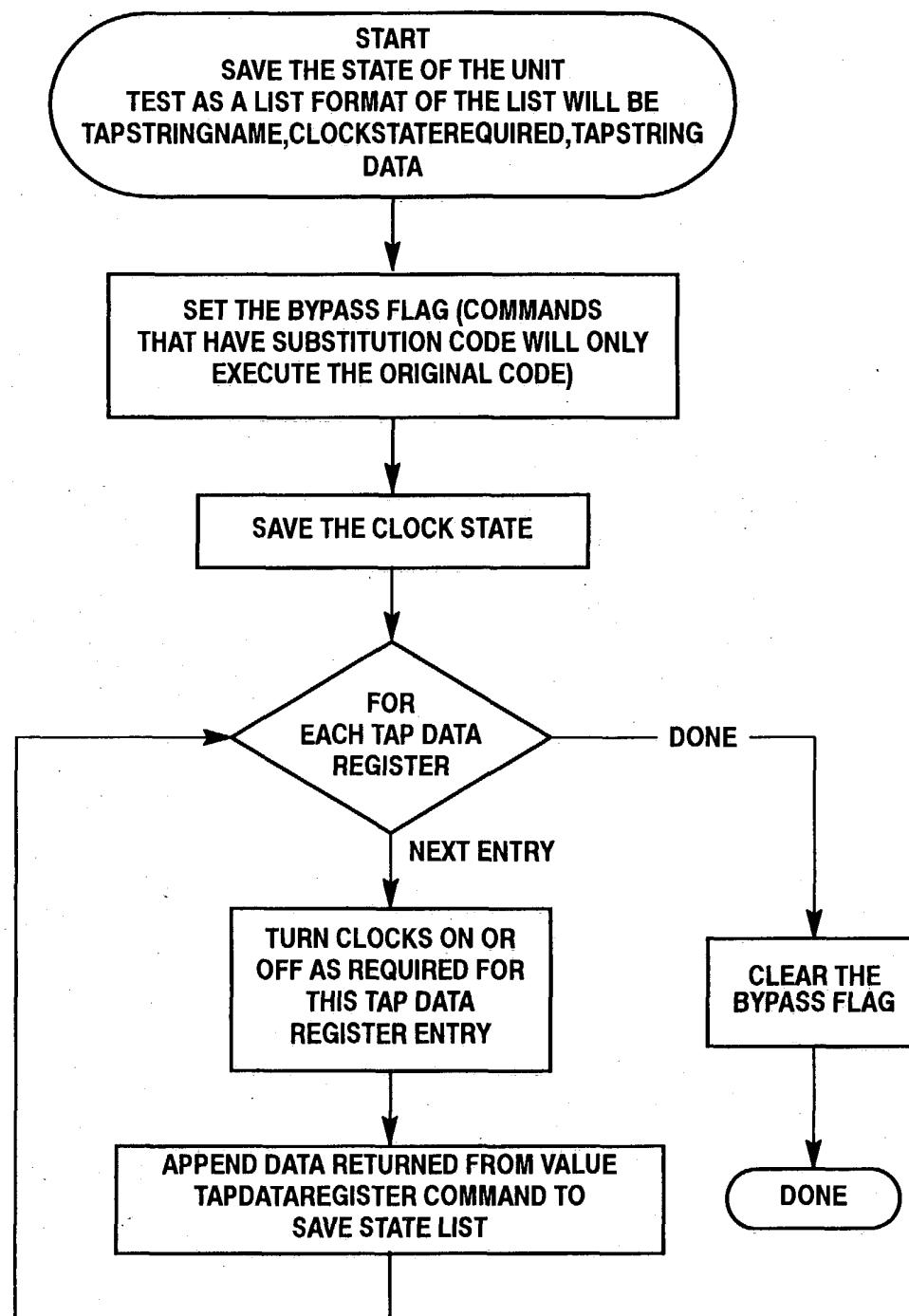


**TCL CODE FOR INITFORGENERATE COMMAND FOR TCL  
TO SVF FORMAT CONVERSION**

**Figure 10C**

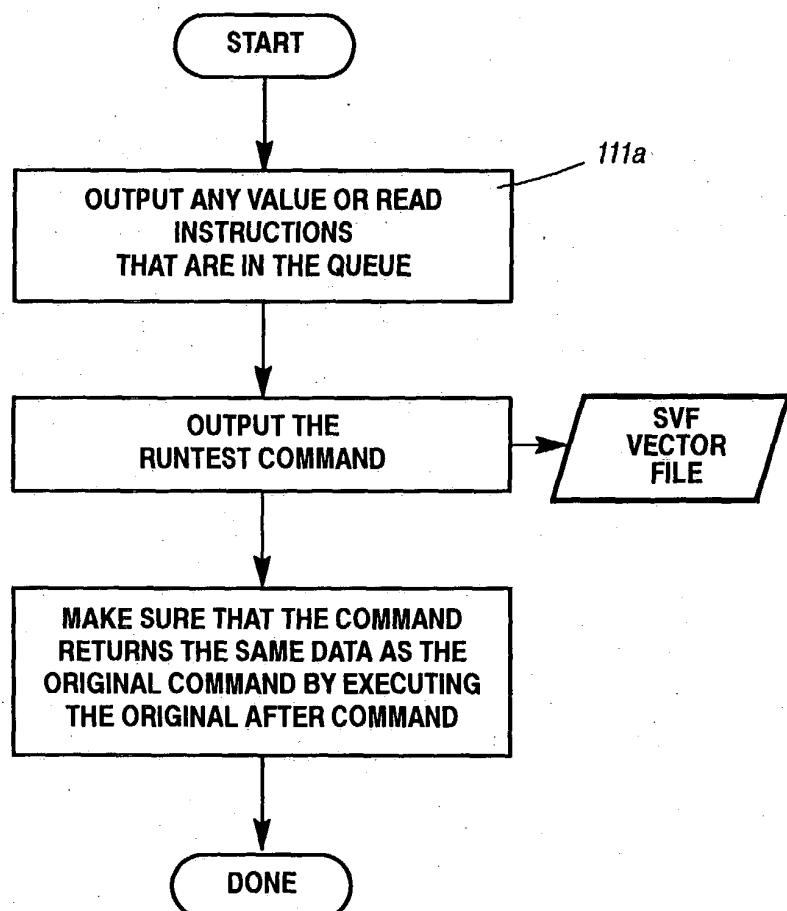


**TCL WRITEINITSTATE COMMAND FOR SVF TO TCL CONVERSION**  
**Figure 10D**

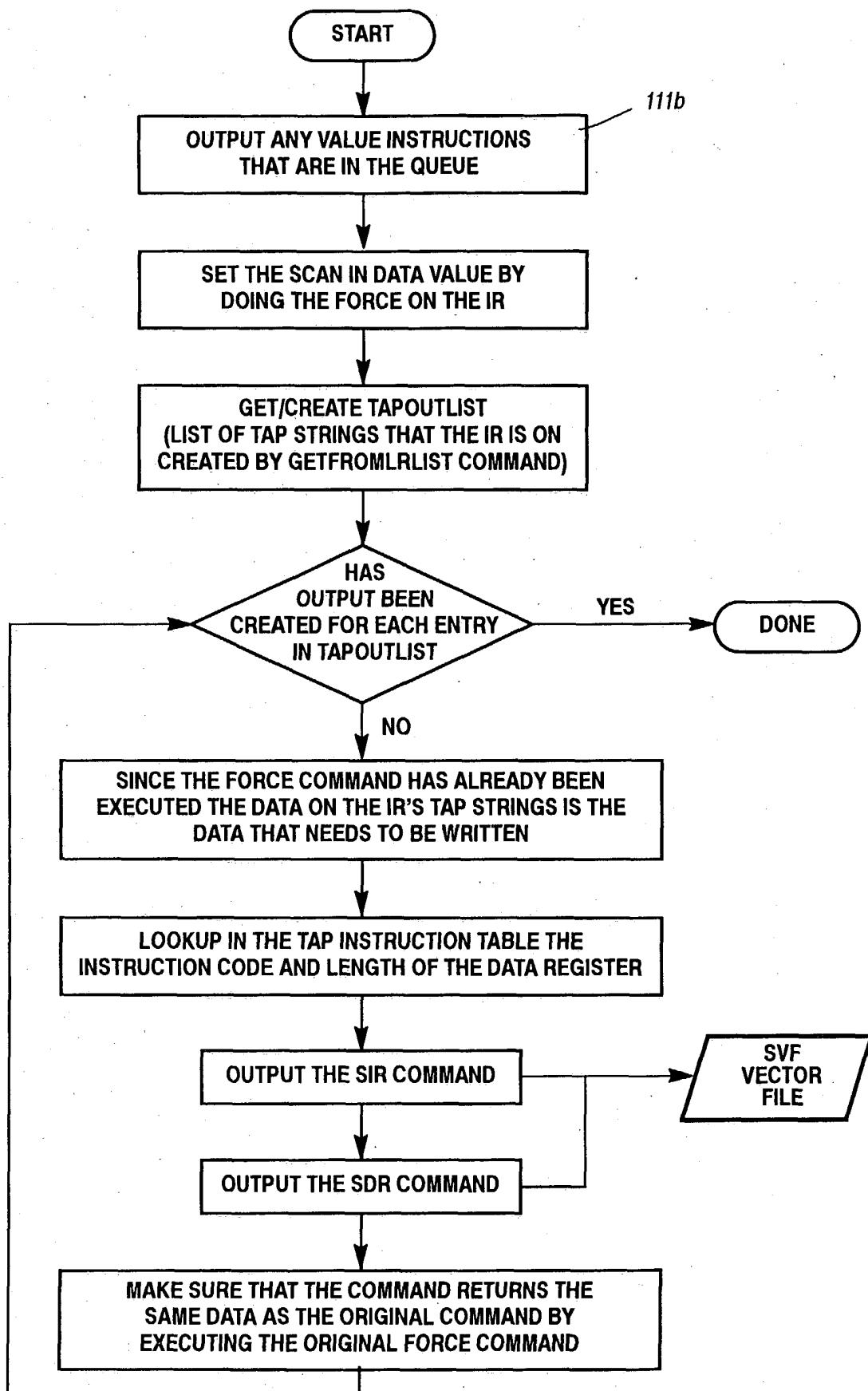


SAVE STATE TEL COMMAND FOR TEL TO SVF CONVERSION

*Figure 10E*

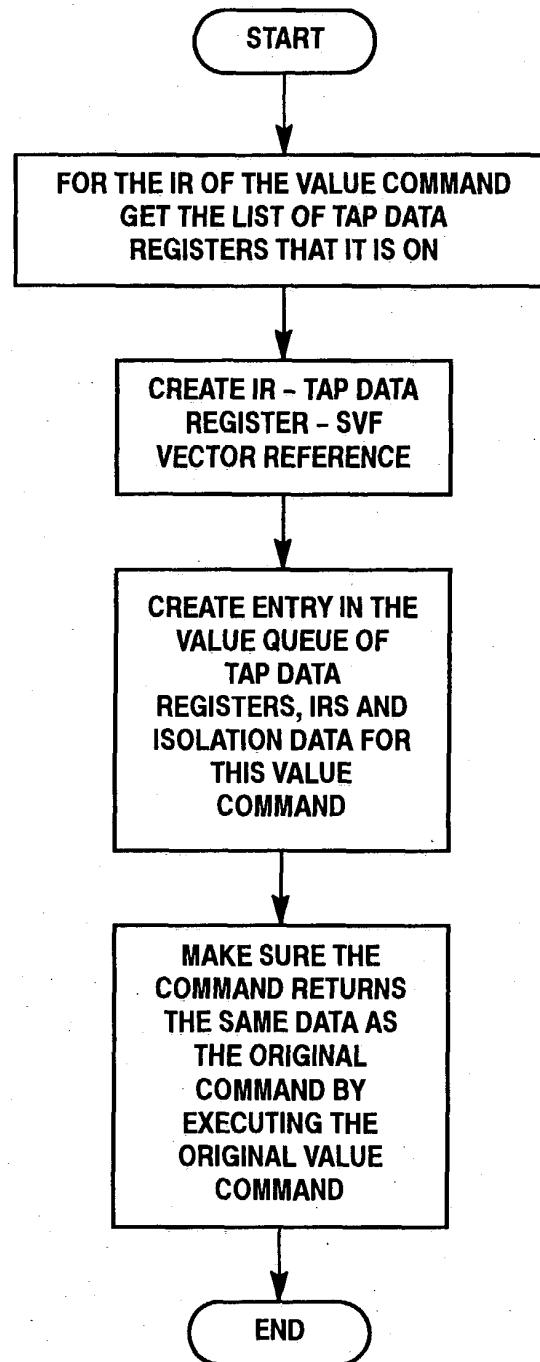


**TCL CODE TO CONVERT AFTER COMMAND TO SVF FORMAT**  
***Figure 10F***



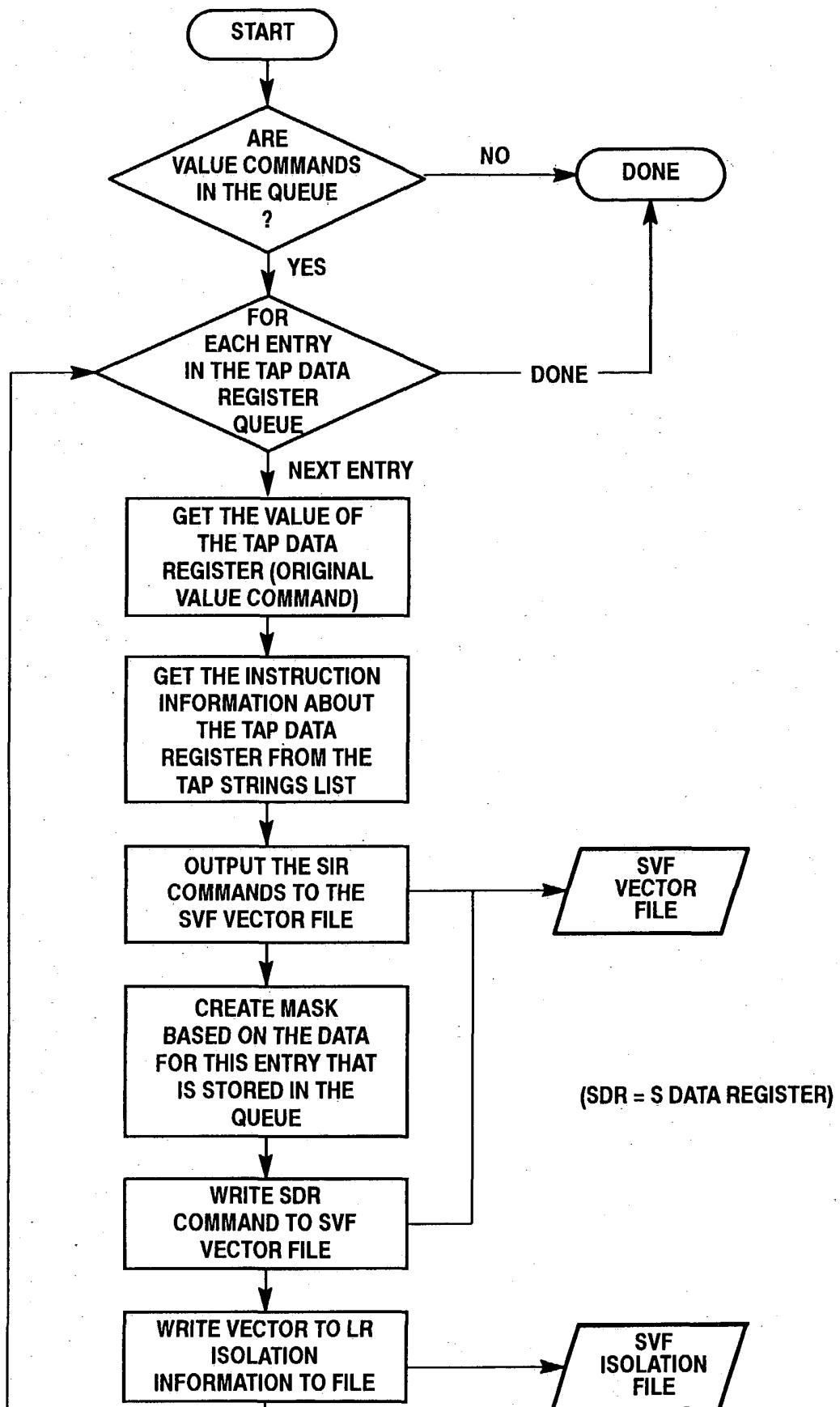
TCL CODE TO CONVERT FORCE COMMAND TO SVF FORMAT

Figure 10G



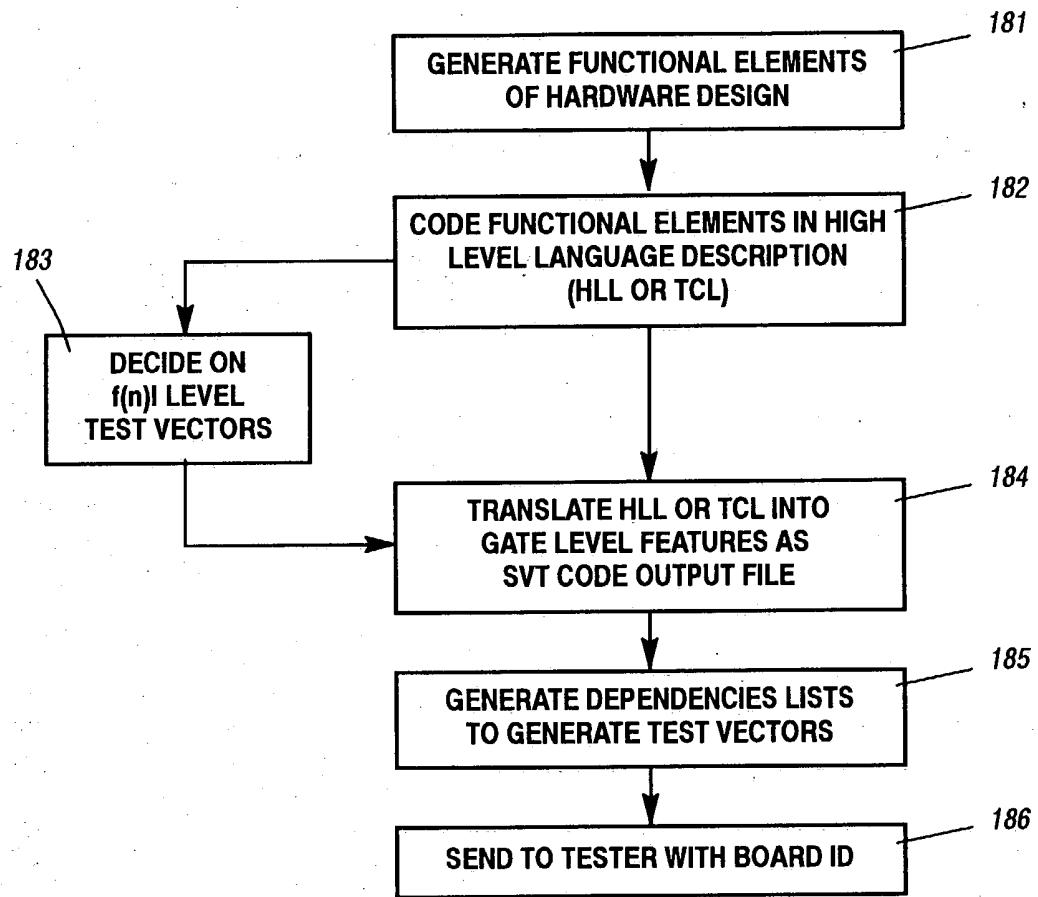
**TCL CODE TO CONVERT VALUE COMMAND TO SVF FORMAT**

***Figure 10H***



**EXPANSION OF OUTPUT VALUE INSTRUCTIONS IN QUEUE  
(IIIa AND IIIb) FROM FIG. 10F AND 10G**

**Figure 10I**



**Figure 11**